

# EIC 2800 SEARCH REPORT



**STIC Database Tracking Number: 314081**

**To: BRIAN HEALY  
Location: JEF-4D05  
Art Unit: 2883  
Tuesday, November 10, 2009  
Patent Number 6826321**

**From: DIANE JACKSON  
Location: EIC2800  
JEF-4B68  
Phone: (571)272-3260  
  
diane.jackson@uspto.gov**

## **Search Notes**

**Attached are litigation search results in Lexis Nexis, and CourtLink and Q-Pat.**

**No Litigation was found for Patent Number 6826321.**

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Patent Number: WO200019550 A1 20000406

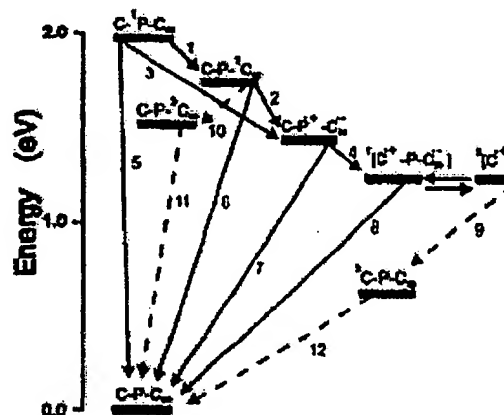
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## MAGNETIC SWITCHING OF CHARGE SEPARATION LIFETIMES IN ARTIFICIAL PHOTOSYNTHETIC REACTION CENTERS

(EP1125333)

Excitation of a triad artificial photosynthetic reaction center consisting of a porphyrin (P) covalently linked to a fullerene electron acceptor (C60) and a carotenoid secondary donor (C) leads to the formation of a long-lived  $C^{+}\cdot-P-C60^{\cdot-}$  charge-separated state via photoinduced electron transfer. This reaction occurs in a frozen organic glass down to at least 8 K. At 77 K, charge recombination of  $C^{+}\cdot-P-C60^{\cdot-}$  occurs on the  $\mu s$  time scale, and yields solely the carotenoid triplet state. In the presence of a small (20mT) static magnetic field, the lifetime of the charge-separated state is increased by 50 %. This is ascribed to the effect of the magnetic field on interconversion of the singlet and triplet biradicals. At zero field, the initially formed singlet biradical state is in equilibrium with the three triplet biradical sublevels, and all four states have comparable populations. Decay to the carotenoid triplet only occurs from the three triplet sublevels. In the presence of the field, the S and T0 states are still rapidly interconverting, but the T+ and T- states are isolated from the other two due to the electronic Zeeman interaction, and are not significantly populated. Under these conditions, recombination to the triplet occurs only from T0, and the lifetime of the charge-separated state increases. This effect can be used as the basis for a magnetically controlled optical or optoelectronic switch (e.g. AND gate).

(From WO0019550 A1)



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**Inventor(s):** GUST JOHN D JR  
MOORE ANA L  
MOORE THOMAS A

**Patent Assignee:** UNIV ARIZONA

**Orig. Patent Assignee:** ARIZONA BOARD OF REGENTS, ARIZONA STATE UNIVERSITY;  
Tempe, Arizona 85281 (US)

### FamPat family

Publication Number	Kind	Publication date	Links
<a href="#">WO200019550</a>	A1	20000406	
STG:	International publication with international search report		
AP :	1999WO-US23012 19991001		
<a href="#">CA2345150</a>	A1	20000406	
STG:	Application laid open		
AP :	1999CA-2345150 19991001		
<a href="#">EP1125333</a>	A1	20010822	
STG:	Application published with search report		
AP :	1999EP-0969851 19991001		
<a href="#">EP1125333</a>	A4	20020102	
STG:	Supplementary search report		
<a href="#">US6826321</a>	B1	20041130	
STG:	Granted patent as first publication		
AP :	2001US-0806540 20010330		
FD :	Provisional Appl: US60102597 19981001 [1998US-P102597]		

**Priority Details:** 1998US-P102597 19981001

1999WO-US23012 19991001  
2001US-0806540 20010330

**Designated States:** (WO200019550)  
CA JP US  
European patent : AT BE CH CY DE DK ES FI FR GB GR IE IT LU  
MC NL PT SE

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☆ 1/1

Patent Number: WO200019550 A1 20000406

Date	Action Taken	
Family member: <b>US6826321 B1</b>		
<b>Status: Alive</b>		
20070227	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20061130
20041130	US-B1 [POS; PIF]	Granted patent as first publication US6826321 B1 20041130 [US6826321]
20041004	US/AS-A [NMC]	ASSIGNMENT OWNER: ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GUST, JOHN D.;MOORE, ANA L.;MOORE, THOMAS A.;REEL/FRAME:015217/0125;SIGNING DATES FROM 20040920 TO 20040928
20041004	US/AS-A [NMC]	ASSIGNMENT OWNER: ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNORS:GUST, JOHN D. /AR;REEL/FRAME:015217/0125;SIGNING DATES FROM 20040920 TO 20040928
20010330	US-API [POS; EXM]	FILING DETAILS US80654001 20010330 [2001US-0806540]
Family member: <b>CA2345150 A1</b>		
<b>Status: Dead</b>		
20030625	CA/FZDE-A [NEG; NIF]	DEAD
20010322	CA/AFNE-A [POS; ENP]	NATIONAL PHASE ENTRY
20000406	CA-A1 [POS; EXM]	Application laid open CA2345150 A1 20000406 [CA2345150]
19991001	CA-API [POS; EXM]	FILING DETAILS CA2345150 19991001 [1999CA-2345150]
Family member: <b>EP1125333 A1</b>		
<b>Status: Dead</b>		
20021218	EP/18D-A [NEG; NIF]	DEEMED TO BE WITHDRAWN ALS ZURUECKGENOMMEN GELTEN EFFECTIVE DATE: 20020203
20020102	EP/A4-A [POS; ADM]	SUPPLEMENTARY SEARCH REPORT ERGAENZENDER RECHERCHENBERICHT EFFECTIVE DATE: 20011109
20020102	EP/AK-A [POS; ADM]	DESIGNATED CONTRACTING STATES: BENANNT VERTRAGSSTAATEN AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
20020102	EP-A4 [POS; EXM]	Supplementary search report EP1125333 A4 20020102 [EP1125333]
20011219	EP/RIC1-A [CCL]	CLASSIFICATION (CORRECTION) KLASSIFIKATION (KORR.) 7H 01L 51/00 A, 7H 01L 51/20 B
20010822	EP-A1 [POS; EXM]	Application published with search report EP1125333 A1 20010822 [EP1125333]
20010822	EP/17P-A [POS; EXM]	REQUEST FOR EXAMINATION FILED PRUEFUNGSANTRAG GESTELLT EFFECTIVE DATE: 20010426
20010822	EP/AK-A [POS; ADM]	DESIGNATED CONTRACTING STATES: BENANNT VERTRAGSSTAATEN AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE
19991001	EP-API [POS; EXM]	FILING DETAILS EP99969851 19991001 [1999EP-0969851]
Family member: <b>WO200019550 A1</b>		
<b>Status: Alive</b>		
20020203	WO/WWW [NEG; RLW]	WIPO INFORMATION: WITHDRAWN IN NATIONAL OFFICE Corresponding Appl: EP 1999969851 [1999EP-0969851]
20010822	WO/WWP [POS; ADM]	WIPO INFORMATION: PUBLISHED IN NATIONAL OFFICE Corresponding Appl: EP 1999969851 [1999EP-0969851]
20010418	WO/WWE [POS; ENP]	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE

		Corresponding Appl: EP 1999969851 [1999EP-0969851]
20010330	WO/WWE [POS; ENP]	WIPO INFORMATION: ENTRY INTO NATIONAL PHASE Corresponding Appl: US 09806540 [1999US-0806540]
20010322	WO/ENP [ENP]	ENTRY INTO THE NATIONAL PHASE IN: Corresponding Pat: CA 2345150 [CA2345150]
20000629	WO/DFPE [EXM]	REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE (PCT APPLICATION FILED BEFORE 20040101)
20000531	WO/121 [ENP]	EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION
20000406	WO-A1 [POS; EXM]	International publication with international search report WO200019550 A1 20000406 [WO200019550]
20000406	WO/AL [POS; ADM]	DESIGNATED COUNTRIES FOR REGIONAL PATENTS CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
20000406	WO/AK [POS; ADM]	DESIGNATED STATES CITED IN A PUBLISHED APPLICATION WITH SEARCH REPORT CA JP US
19991001	WO-API [POS; EXM]	FILING DETAILS WOUS9923012 19991001 [1999WO-US23012]

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806540 (09) 6826321 November 30, 2004 ,

## UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

**6826321**[Get Drawing Sheet 1 of 6](#)[Access PDF of Official Patent \\*](#)[Order Patent File History / Wrapper from REEDFAX®](#)[Link to Claims Section](#)

November 30, 2004 ,

Magnetic switching of charge separation lifetimes in artificial photosynthetic reaction centers

**REISSUE:**

November 30, 2006 - Reissue Application filed, Ex. Gp.: 2883; Re. S.N. 11/565,506 , , (O.G. February 27, 2007) ,

**INVENTOR:** Gust, Jr., John D. - Mesa, United States of America (US) ; Moore, Ana L. - Scottsdale, United States of America (US) ; Moore, Thomas A. - Scottsdale, United States of America (US)**APPL-NO:** 806540 (09)**FILED-DATE:** March 30, 2001**GRANTED-DATE:** November 30, 2004 ,**ASSIGNEE-PRE-ISSUE:**

October 4, 2004 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., ARIZONA BOARD OF REGENTS, ACTING FOR AND ON BEHALF OF, ARIZONA STATE UNIVERSITY BRICKYARD SUITE 601, 691AA ARIZONA TECHNOLOGY ENTERPRISES, LLC TEMPE, ARIZONA, 85281, Reel and Frame Number: 015217/0125

**ASSIGNEE-AT-ISSUE:**

Arizona Board of Regents, Tempe, ARIZONA , United States of America (US)

**LEGAL-REP:** Luther, Barbara J. ; Quarles & Brady Streich Lang LLP**PUB-TYPE:** November 30, 2004 - Patent without a pre-grant publication (B1)**PUB-COUNTRY:** United States of America (US)**LEGAL-STATUS:**

October 4, 2004 - ASSIGNMENT October 4, 2004 - ASSIGNMENT

**FILING-LANG:** English (EN) (ENG)

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or	or	w/seg	in same segment
w/N	within N words	w/s	in same sentence
pre/N	precedes by N words	and not	and not

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**WARD'S**  
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Ward's Dealer Business

June 1, 2005

**SECTION:** FEATURES; Pg. 16 ISSN: 1086-1629**LENGTH:** 11522 words**HEADLINE:** Happier Days Here Again**BYLINE:** By Cliff Banks**BODY:**

Rank	Dealership Owner/Principals	City	State	New Revenue	New Units	Used Revenue	Used Units	F&I rev	Servi Rev
...									
126	Frank Parra Autoplex	Sonic Automotive Inc.	Irving TX	\$91,807,284	2,339	\$23,917,425	1,603	\$4,465,745	\$4,491.
...									

Source: **Combined Source Set 1** ☐ - **News, All (English, Full Text)**Terms: **(6826321 or 6,826,321)** ([Edit Search](#) | [Suggest Terms for My Search](#))

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



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- ☒ ☐ TITLE 32. NATIONAL GUARD
- ☒ ☐ TITLE 33. NAVIGATION AND NAVIGABLE WATERS
- ☒ ☐ TITLE 34. [NAVY]
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- ☒ ☐ TITLE 36. PATRIOTIC AND NATIONAL OBSERVANCES, CEREMONIES, AND ORGANIZATIONS
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**Healy, Brian**

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**From:** Jackson, Diane  
**Sent:** Tuesday, November 10, 2009 11:53 AM  
**To:** Healy, Brian  
**Subject:** Litigation - Patent 6826321 - Nothing Found  
**Attachments:** LITIGATION-Patent\_6826321NPL.pdf..pdf

Hi Examiner Healy,

No Litigation was found for Patent Number 6826321. Please see attached pdf.

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11/10/2009